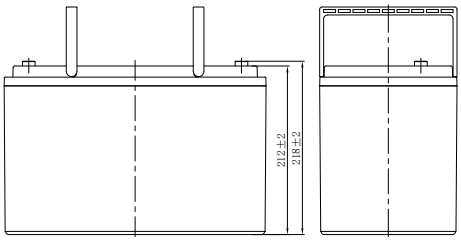
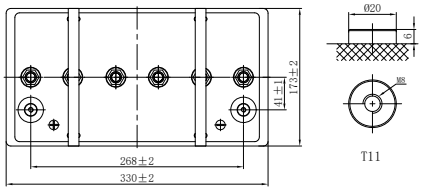
LRC SERIES-LEAD CARBON

LRC12-80 (12V80Ah)

LEOCH BATTERY







CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	80Ah
Dimension	Length	330mm (13.0inches)
	Width	173mm (6.81inches)
	Container Height	212mm (8.35inches)
	Total Height	218mm (8.58inches)
Approx Weight		33.0kg (72.8lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1840A
Internal Resistance (25˚C)		Approx 7 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~55˚C (-4~131°F)
	Charge	-20~40˚C (-4~104°F)
	Storage	-20~50˚C (-4~122°F)
Nominal Operating Temp. Range		25±3˚C (77±5°F)
Max.Charging Current (25˚C)		0.15C
Charge voltage (25˚C)	Standby Use	Cycle Use
	2.25V/cell	2.35V/cell
Temp. Coeffcient	/	-5mV/cell/˚C
Effect of temp. to Capacity	40˚C (104°F)	103%
	25˚C (77°F)	100%
	0˚C (32°F)	86%
Self Discharge	⩽3.5% per month at 25°C (77°F)	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	30min	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1.95V/cell	39.2	29.4	18.7	14.7	12.5	10.6	9.30	8.30	7.60	6.30	3.40
1.90V/cell	49.1	35.7	22.2	17.3	14.6	12.3	10.7	9.60	8.80	7.30	3.90
1.85V/cell	58.4	40.6	25.8	20.1	17.1	14.4	12.5	11.0	9.90	8.00	4.30
1.80V/cell	65.4	44.6	27.5	21.0	17.6	14.7	12.7	11.1	10.1	8.20	4.40
1.75V/cell	69.4	46.1	27.8	21.5	17.8	15.0	12.9	11.4	10.2	8.40	4.50
1.70V/cell	72.5	47.1	28.1	22.0	18.2	15.3	13.1	11.6	10.3	8.50	4.60
Constant Power Discharge (Watts/cell) at 25°C (77°F)											
F.V/Time	30min	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1.95V/cell	73.5	54.9	35.7	27.4	23.2	19.8	17.5	16.1	15.1	12.6	6.80
1.90V/cell	91.8	66.6	42.5	32.1	27.1	23.1	20.5	18.7	17.6	14.6	7.80
1.85V/cell	111.3	79.3	50.1	38.1	31.8	26.9	23.7	21.6	20.1	16.6	8.70
1.80V/cell	122.1	83.2	52.5	39.1	32.6	27.4	24.1	21.8	20.3	16.8	8.80
1.75V/cell	137.5	86.2	52.7	39.7	33.1	27.9	24.6	22.2	20.5	16.9	8.90
1.70V/cell	140.1	87.2	53.0	40.6	33.5	28.5	25.1	22.8	20.6	17.1	9.00

LRC SERIES-LEAD CARBON

LRC12-80 (12V80Ah)

LEOCH BATTERY

APPLICATIONS

- Mobile Containerized Energy Storage Systems
- Residential Energy Storage Systems
- PSOC Cycle Applications
- Peak Shaving and Valley Filling System
- Natural gas and oil hybrid energy storage systems
- Grid Frequency Regulation Energy Storage System
- Solar, wind, and hybrid energy storage systems
- Microgrid power plants

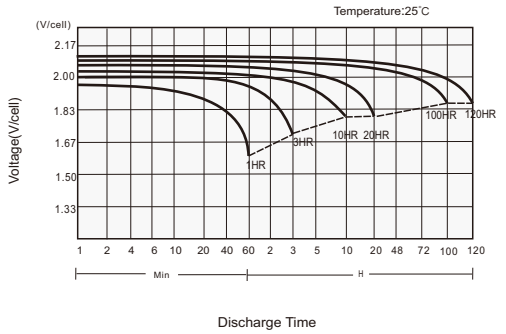
GENERAL FEATURES

- Super Carbon technology enhanced active material to maximize cycle performance and PSoC operation
- 100% leak tested to ensure sealintegrity
- High-strength, High Temperature resistant, UL94-V0 Compliant Case and Cover optional
- Extended service life in high temperature applications

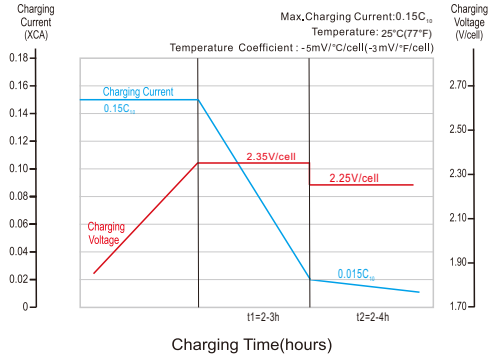
STANDARDS

- Compliance with IEC 61427, BS EN 61427 standards
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

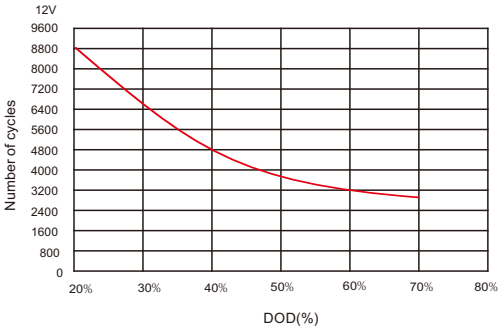
Discharge Characteristics



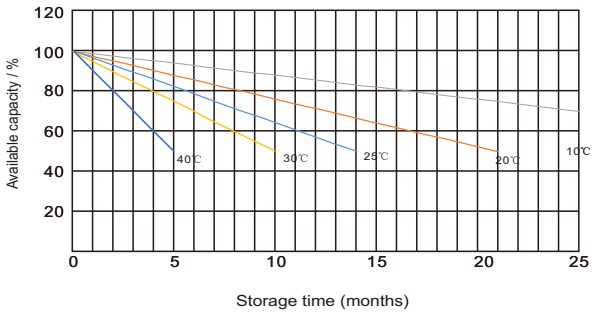
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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